

## **EDITED TASK LISTING**

### **CLASS: SENIOR STRUCTURAL ENGINEER,CF**

*NOTE: Each position within this classification may perform some or all of these tasks.*

1.	Examines plans of important public buildings to determine their ability to withstand earthquake, fire, or wind and to safely carry such loads as may be imposed using various resources (e.g. knowledge, experience, California Building Code, engineering software, manuals) as directed.
2.	Mentors other staff with the checking of designs, specifications or in the preparation of drawings to provide guidance and assistance using various resources (e.g. knowledge, interpersonal skills, experience, California Building Code, engineering software, manuals) as needed.
3.	Reviews specifications, shop drawings, and submittals for major buildings and other structures to ensure compliance with construction documents using various resources (e.g. knowledge, experience, California Building Code, engineering software, manuals) as directed.
4.	Inspects structures during construction to ensure conformance to plans and specifications using various resources (e.g. knowledge, experience, California Building Code, manuals) as necessary.
5.	Provides assistance to architects, structural engineers, and contractors regarding the interpretation of the Design Criteria Guidelines (DCG) set up by the department as needed.
6.	Reviews conceptual designs and/or construction documents provided by institution and/or design consultants regarding approval or disapproval of the work to ensure compliance with applicable codes and DCG as directed.
7.	Consults with construction personnel to provide information, change orders, request for information, alternative construction methods, etc. using various resources (e.g. knowledge, experience, interpersonal skills) as necessary.
8.	Consults with institution plant operations personnel to coordinate site visits, provide technical information, recommendations on structural concerns, etc. using various resources (e.g. knowledge, experience, interpersonal skills) as directed.
9.	Designs and prepares structural plans and specifications for major buildings and other structures to provide direction to the entity responsible for construction using various tools, equipment, aids and/or processes as directed.
10.	Prepares tentative designs of structures for budget estimates using various resources (e.g. knowledge, experience, California Building Code, engineering software, manuals) as directed.
11.	Prepares effective written products to provide information and documentation utilizing various tools, equipment, aids and/or processes as directed.
12.	Communicates in a professional and effective manner with others utilizing tact and interpersonal skills to establish and maintain effective working relationships in all situations.

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<b>13.</b>	Conducts value engineering (analysis) for various projects to provide possible cost saving alternatives using various resources (e.g. knowledge, experience, California Building Code, engineering software, manuals) as directed.
<b>14.</b>	Investigates structural elements to ensure the structural integrity for occupancy/service using various resources (e.g. knowledge, experience, California Building Code, engineering software, manuals) as directed.
<b>15.</b>	Certifies that structures have been built to conform to plans and specifications, as directed.